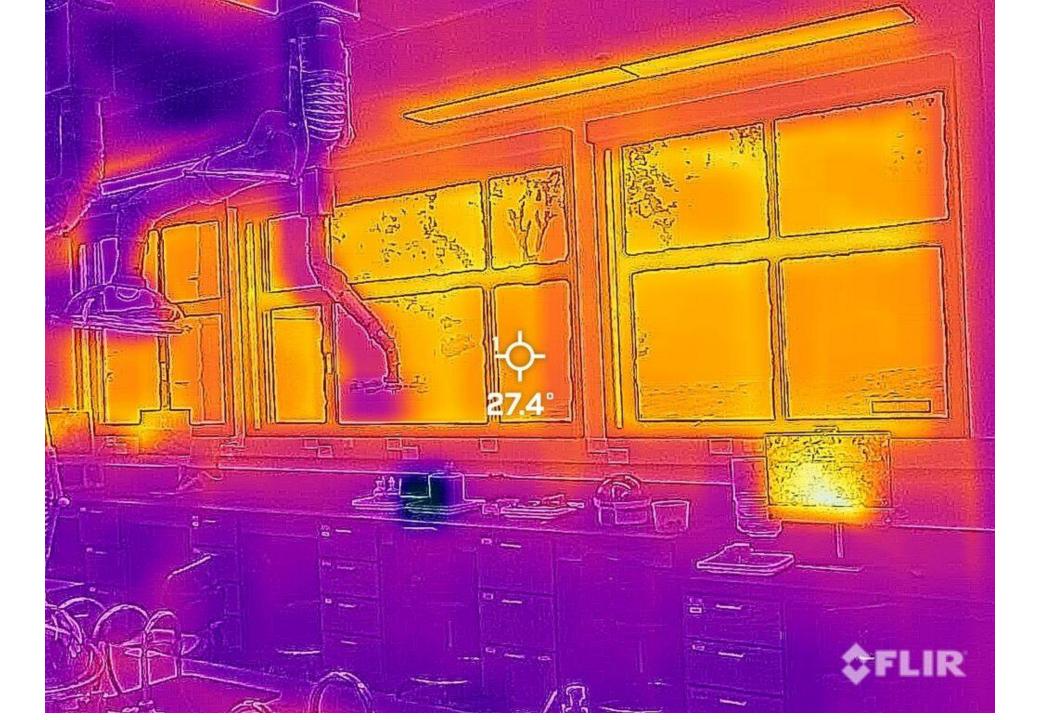


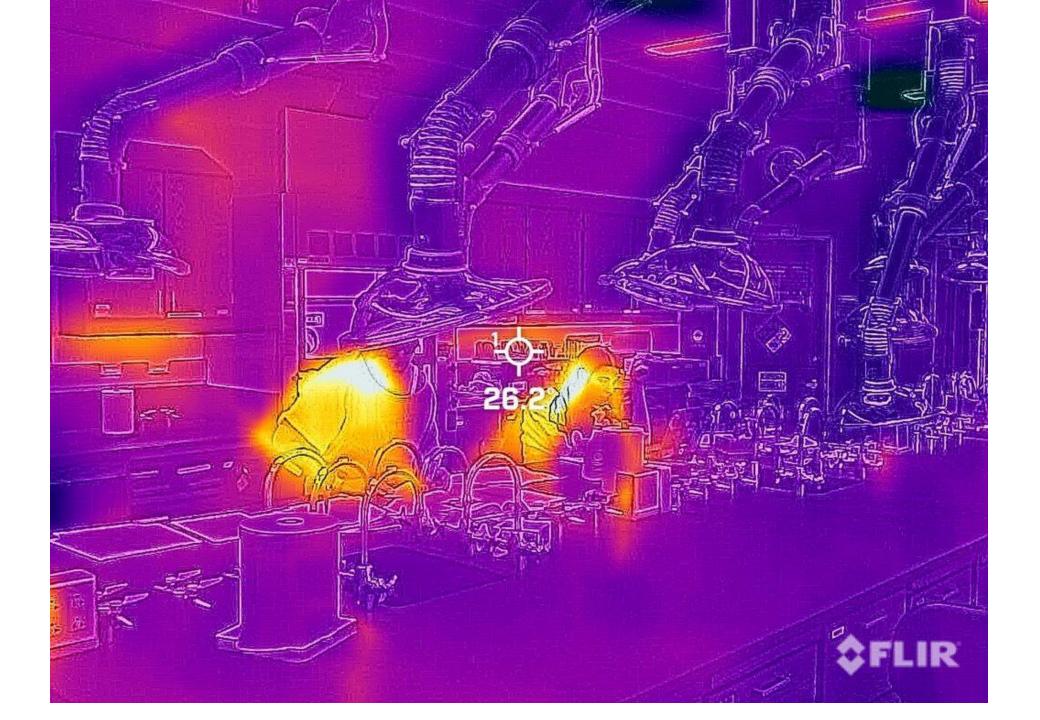


Our first image

Jason Maxwell



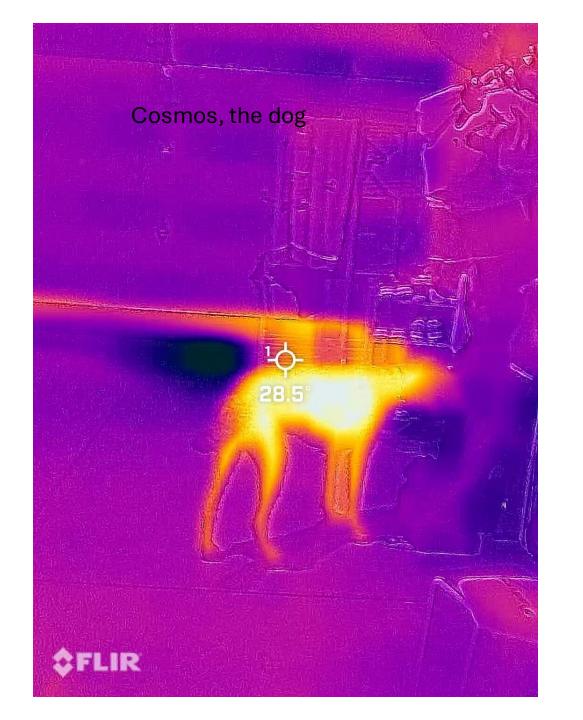




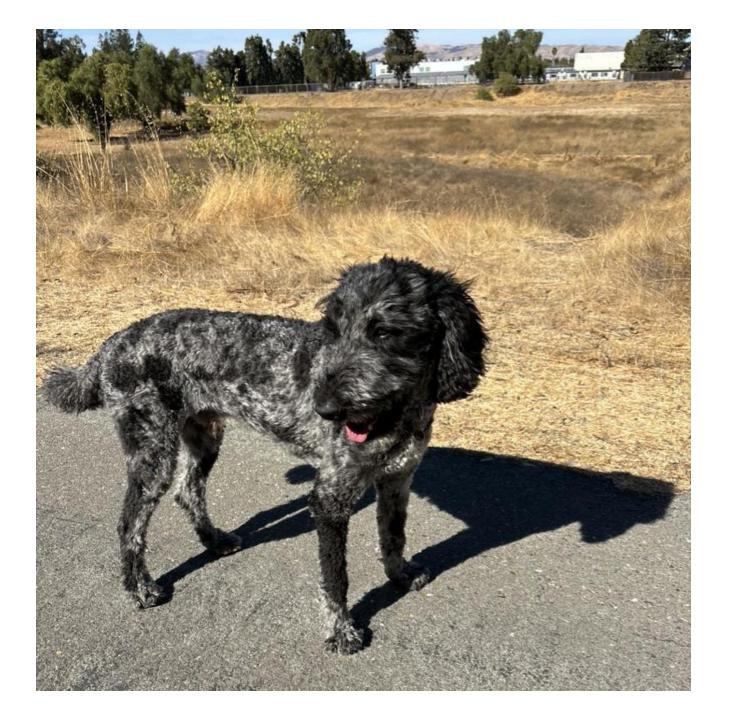
• Images at home:

- Our new heat pump water heater
- It efficiently pumps heat from the room into the water,
- leaving cool air flowing to the garage floor.

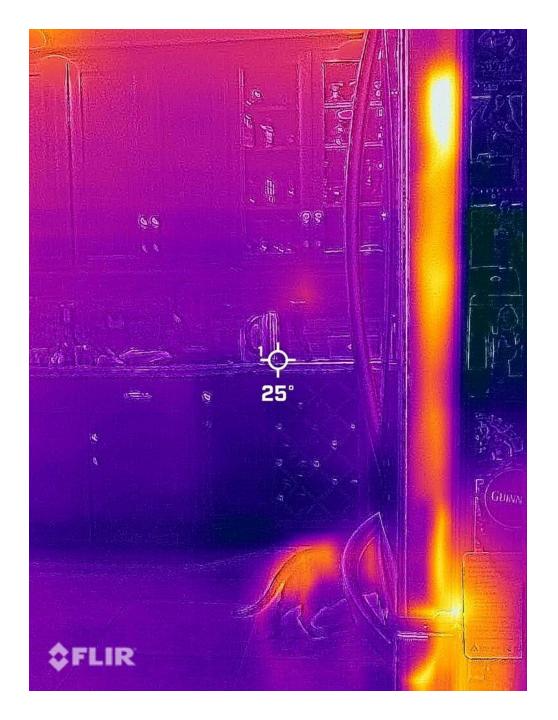




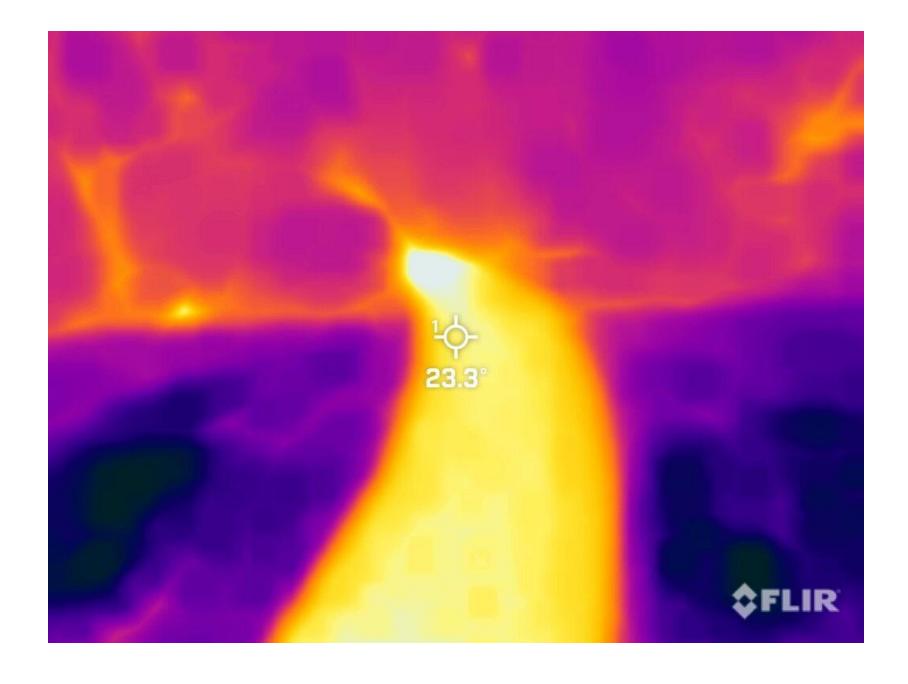




Cosmos in visible light



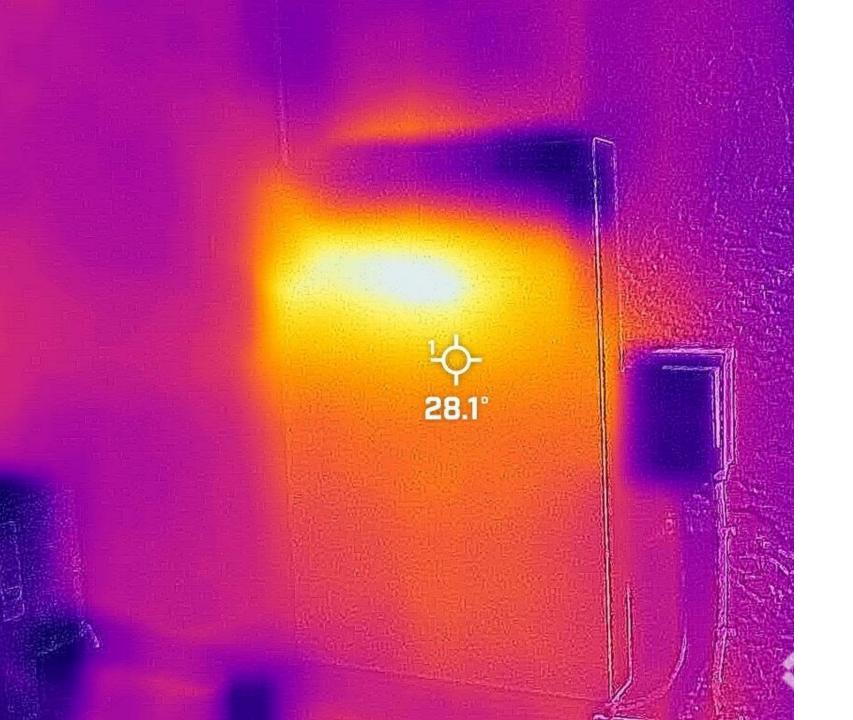
The cat is camera shy.



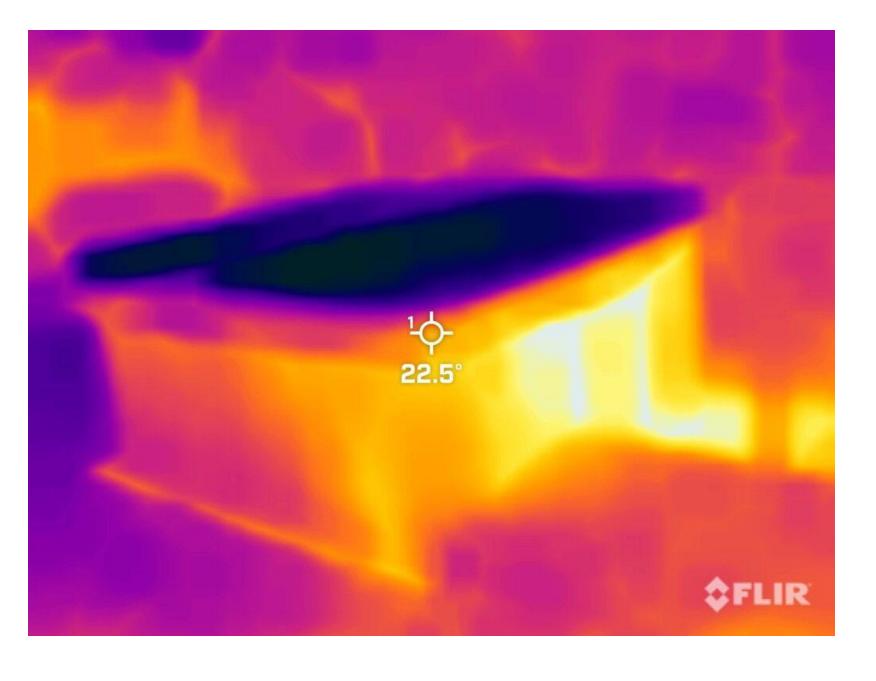
Hot bricks and cool lawn



A warm house after dark

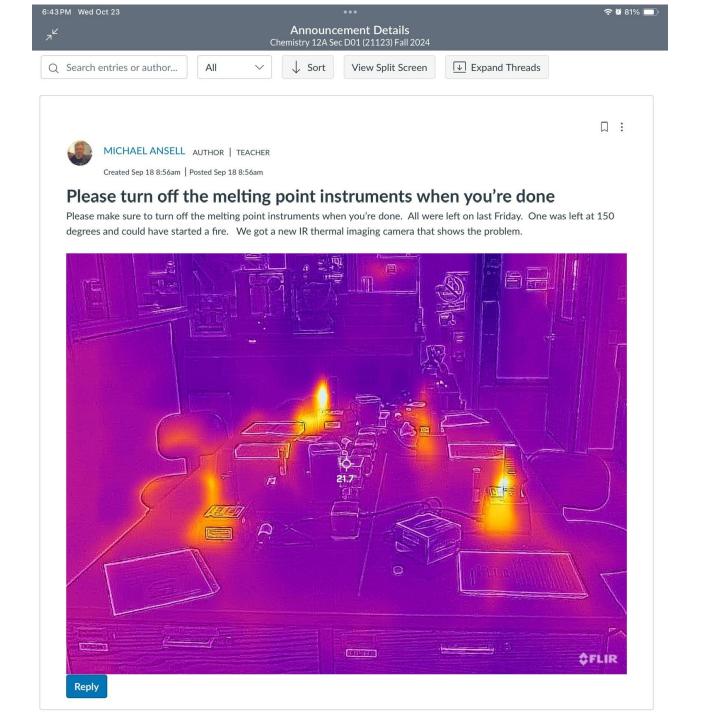


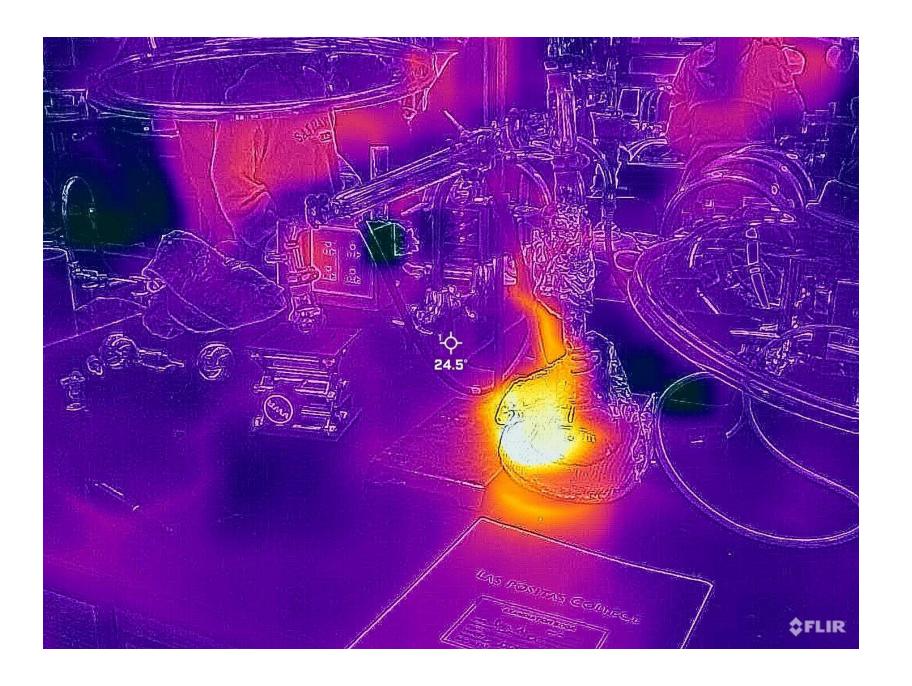
• The battery for storing electricity

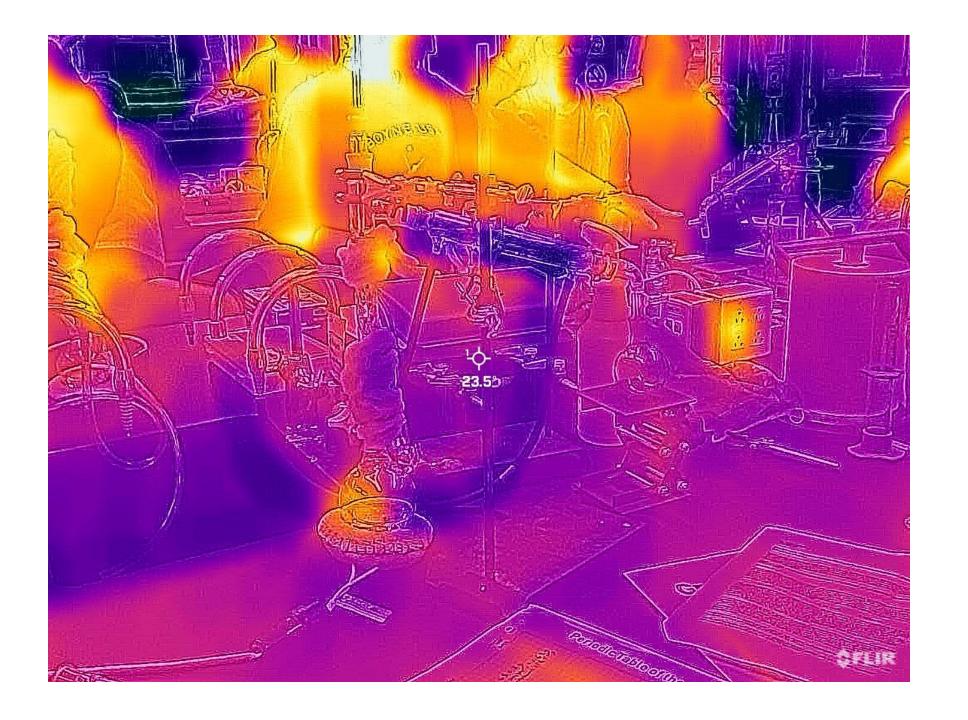


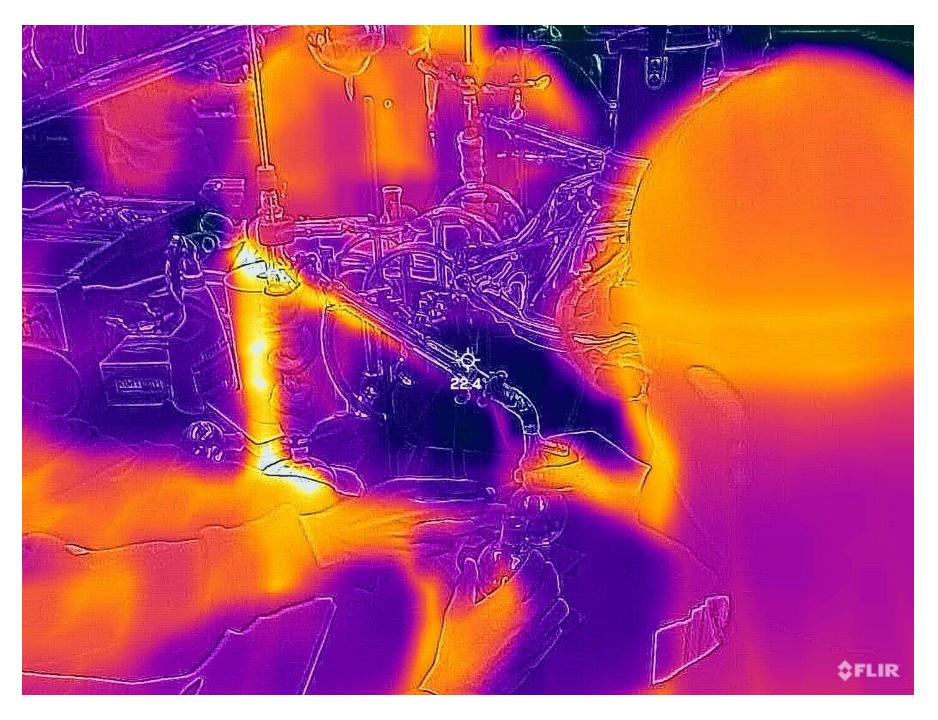
Hot tub with a new cover





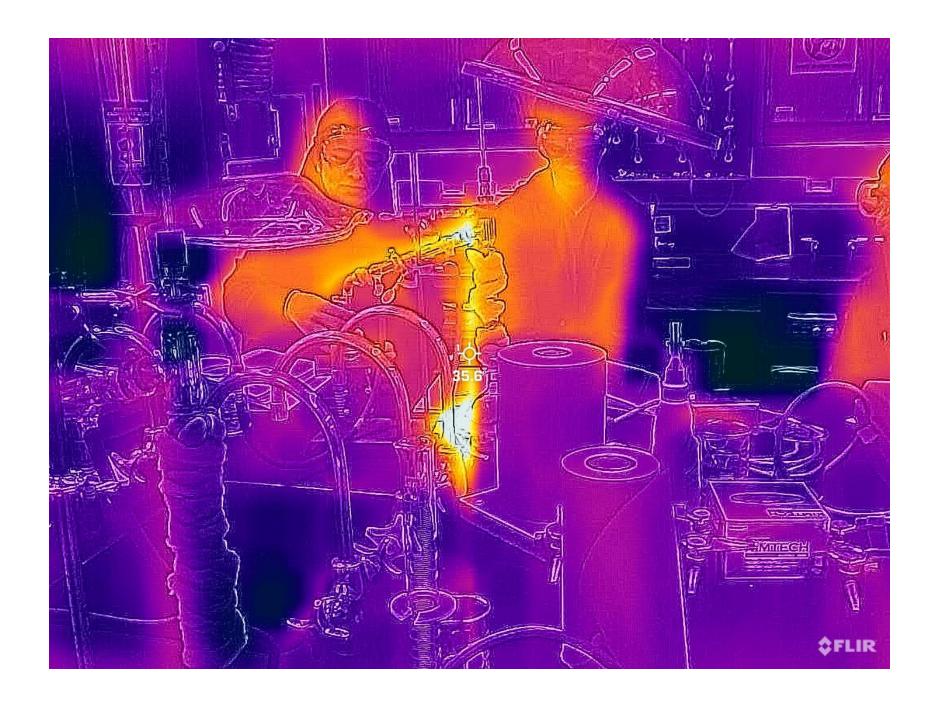






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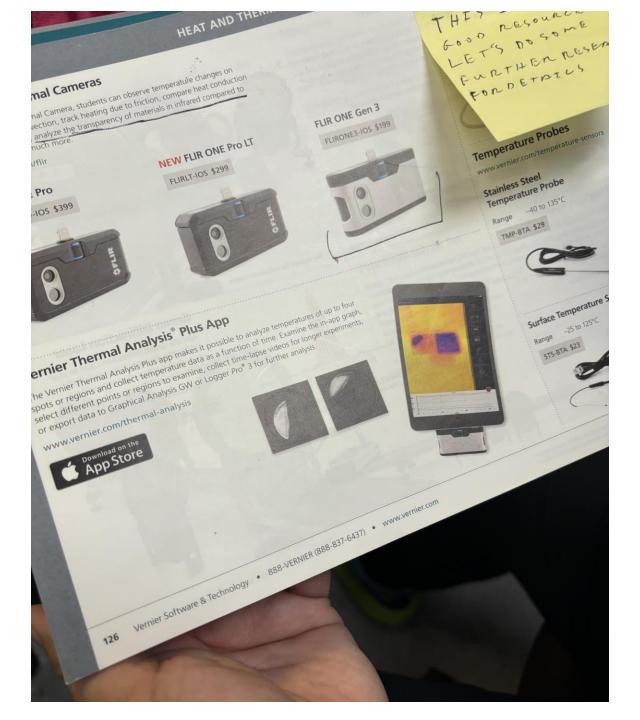




## **Equipment Used in Experiments**

X = 0 =	: Required : Optional	Colorimeter or Spectrometer	Conductivity	Current Probe or Constant Current System	Drop Counter		Gas Pressure	ORP Sensor	Hd	Radiation		Temperature	Voltage	
1	The Determination of a Chemical Formula	No sensor												
2	The Determination of the Percent Water in a Compound	No sensor												
3	The Molar Mass of a Volatile Liquid		1				0	194				X		1
4	Using Freezing-Point Depression to Find Molecular Weight											X		
5	The Molar Volume of a Gas						X					X		
6	Standardizing a Solution of Sodium Hydroxide								,	(				1
7	Acid-Base Titration				(	0				×				
8	An Oxidation-Reduction Titration: The Reaction of Fe(II) and Ce(IV)					0		X						
9	Determining the Mole Ratios in a Chemical Reaction											1	X	
10	The Determination of an Equilibrium Constant	X								216				
11	Investigating Indicators					0				X				
12	The Decomposition of Hydrogen Peroxide						>						0	
13	Determining the Enthalpy of a Chemical Reaction						100						X	
14	(Parts A and B) Separation and Qualitative Analysis of Cations and Anions									0	-			
15	(Parts A and B) The Synthesis and Analysis of Alum									199			X	
16	Conductimetric Titration and Gravimetric Determination of a Precipitate			×		0					-			
17	Determining the Concentration of a Solution: Beer's Law	×												A A

Any experiment with heat or temperature changes might be interesting...



Software:

FLIR One – Free and easy to use

Vernier Thermal Analysis Plus - \$9.99

Graphs temperature at up to 4 points

